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PHOTOGRAPHIC INTELLIGENCE REPORT

IMAGERY  
ANALYSIS  
DIVISION

CHUNG-CHING EXPLOSIVES/ORDNANCE PLANTS  
CHUNG-CHING (CHUNGKING), CHINA

Declass Review by  
NIMA/DOD

GROUP 1  
Excluded from automatic  
downgrading and declassification

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CIA/PIR 65032

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## CIA IMAGERY ANALYSIS DIVISION

CHUNG-CHING EXPLOSIVES/ORDNANCE PLANTS  
CHUNG-CHING (CHUNGKING), CHINA

An explosives plant and two ordnance plants are located near Chung-Ching (Chungking), China. These are the Chung-Ching Explosives Plant and the Chung-Shu-To Ordnance Plants Numbers 1 and 2. In addition, there are a number of arsenals in or near the Chung-Ching Area. Two of these have been identified from aerial photography--the Chung-Ching Arsenal Number 456 and the Chung-Ching Arsenal Number 451. Approximate geographic coordinates for these plants and arsenals are as follows:

Chung-Ching Explosives Plant	29 43N - 106 30E
Chung-Shu-To Ordnance Plant Number 1	29 35N - 106 28E
Chung-Shu-To Ordnance Plant Number 2	29 34N - 106 29E
Chung-Shu Arsenal Number 456	29 35N - 106 34E
Chung-Ching Arsenal Number 451	29 36N - 106 27E

The explosives plant and the two ordnance plants will be discussed in this report. The two arsenals, numbers 456 and 451, will be discussed in a second report, CIA/PIR 65033.

A. Chung-Ching Explosives Plant

1. This explosives plant is 9.5 nautical miles north northwest of Chung-Ching and 0.5 nautical miles from the northwest bank of the Chia-ling Chiang (river) (Figure 2). It is served by roads to the northwest and southeast. The latter road leads to the Chia-ling Chiang where small craft can be anchored along the river bank for the possible loading and unloading of materiel used or produced by the plant.

The plant is broken down into two secured areas--a production area and a storage area. The production area covers approximately 2,600,000 square feet and the storage area 860,000 square feet.

There are no specific features of the facilities at this plant which permit a definite identification as to the type of explosive produced. The plant might produce a smokeless powder although the acid area, tankage, and water supply needed for this operation are not evident from photography. There is also a possibility that an explosive manufactured elsewhere is processed at this plant.

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Plant activity seems to be rather limited as indicated by the available photography. No steam or smoke, open materiel storage, or vehicles can be seen within or near the plant. However, on photography [ ] the plant roads appear to be well traveled and several buildings appear to be of recent construction. At the end of the road from the plant, several barges and a number of small craft were anchored along the bank of the Chia-ling Chiang in [ ]. On photography of [ ] there is a possibility that some construction is currently in progress (part 2, section b).

2. The limits of and the various facilities present at the Chung-Ching Explosives Plant are shown on Figure 4.

a. The annotations on Figure 4 correspond to the following discussion:

- (1) Secured explosives storage area with seven revetted storage buildings which are road served, two support buildings, and several additional buildings. On photography of [ ] five of the revetments are either without or only partially covered by foliage thus suggesting that they may have been completed at about this time.
- (2) Administration/support area.
- (3) Warehousing/maintenance area.
- (4) Possible power substation.
- (5) Possible construction site or site of former building.
- (6) Boilerhouse with two large stacks; the building east of the boilerhouse has a small stack. In addition, there are several warehouse/maintenance type buildings southwest of the boilerhouse. A broken line on the overlay leading from the boilerhouse and into the area of buildings 7, 9, 10, 11, and 12 indicates the location of a probable steamline.
- (7) Possible processing building with two adjacent small buildings. In addition, there is a small structure possibly containing tanks to the northeast of building 7. A possible pipeline leads from this structure toward the processing building.
- (8) Bunker with several entrances; on the northwest side there is a possible construction site or site of a former building.
- (9) Revetted processing building served by a probable steamline; there are two entrances to the revetment from the road south of this building.

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- (10) Revetted, irregularly shaped processing building served by a probable steamline; there are entrances to the revetment to the west and east.
- (11) Revetted processing/storage building with two small roof ventilators or stacks; there is a single entrance on the east side of the revetment.
- (12) Revetted processing/storage building similar to the preceding but with entrances on the southwest and east sides of the revetment.
- (13) Warehousing/maintenance type building.
- (14) Road, possibly under construction in [ ] and linking building 13 with the road serving buildings 11 and 12.
- (15) Revetted storage building.
- (16) Revetted processing building with probable blast walls dividing it into six cells.
- (17) Storage area with three large and a number of smaller storage buildings. Several of the latter are situated so that the terrain provides some blast protection.
- (18) Two revetted storage buildings.

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b. Earth scarring in the area of Annotation 3 (warehousing/maintenance area) in [ ] (Figure 5) is the only apparent change noted in comparing the latest photography with that of [ ]

B. Chung-Shu-To Ordnance Plants Number 1 and Number 2

1. Ordnance plant number 1 is located 6 nautical miles west northwest of Chung-Ching and 0.5 nautical miles from the northeast bank of the Chia-ling Chiang. Ordnance plant number 2 and an adjacent munitions storage site are located directly to the southeast of plant number 1 (Figure 2).

Both plants are road served and secured. Plant number 1 covers an area of approximately 4,000,000 square feet and plant number 2 covers 8,000,000 square feet.

Principal features of plant number 1 are a number of revetted magazines, a long (approximately 1,000 feet) covered walkway with several adjacent service magazines, several possible foundries, and a number of fabrication buildings. Plant number 2 consists of three weapons test ranges, at least three small possible foundries, and a large number of small shop/storage buildings. Consequently, it appears that production of munitions hardware and ammunition loading take place in plant number 1 and that weapons testing and some additional munitions hardware

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production occur in plant number 2. The loading facilities in plant number 1 are similar to some domestic facilities for loading a booster such as teteryl; however, the loading of other types of explosives could be done at these facilities.

Available photography indicates that activity at these plants is rather limited. No steam or smoke, open materiel storage, or large vehicles can be seen within the plant areas. Changes in the amount of open materiel storage in an area to the west of plant number 1 can be noted between [redacted] Also one large building in this plant appeared to be of recent construction in [redacted] On photography of [redacted] there is one building under construction and possible construction near the eastern end of plant number 1 (part 2, section b).

2. The limits of the various facilities present at the Chung-Shu-To Ordnance Plants Numbers 1 and 2 are shown on Figure 6.

a. The annotations on Figure 6 correspond to the following discussion; Annotations 1 thru 19 refer to ordnance plant number 1 while Annotations 20 thru 22 refer to ordnance plant number 2 and an adjacent munitions storage site:

Chung-Shu-To Ordnance Plant Number 1

- (1) Two storage buildings; the terrain around the building to the south affords some blast protection.
- (2) Two small storage buildings, possibly revetted.
- (3) Service magazine.
- (4) Service magazine.
- (5) Covered walkway measuring approximately 1,000 feet and connecting the two service magazines (Annotations 3 and 4) and building 6
- (6) Possible assembly building.
- (7) Five revetted magazines; small paths from these magazines lead to building 6.
- (8) Two probable water tanks.
- (9) Water reservoir.
- (10) Small revetted magazine.
- (11) Small building associated with the preceding magazine.
- (12) Two assembly or warehouse/maintenance type buildings; the six magazines (Annotations 10 and 14) situated around the two buildings suggests that they may be more than warehouse/maintenance type buildings. The "E-shaped" building to the north appeared to be of recent construction on photography of [redacted]

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- (13) Possible assembly/loading building, served by a steamline from the boilerhouse (Annotation 16).
- (14) Five revetted magazines.
- (15) Possible assembly/loading building, served by a steamline from the boilerhouse.
- (16) Boilerhouse.
- (17) Administration area.
- (18) Possible foundry and small shop area.
- (19) Four large fabrication buildings and a possible foundry.

Chung-Shu-To Ordnance Plant Number 2

- (20) Road served munitions storage site with four revetted storage buildings, one probable warehouse, three small buildings, and a probable guardhouse.
- (21) Secured area with at least three small possible foundries and a large number of small shop/storage buildings and unidentified structures.
- (22) Three weapons test ranges--two of these ranges are approximately 450 feet while the third is approximately 150 feet in length.

b. The only apparent changes noted in comparing photography of [ ] with that of [ ] are the following (shown on Figure 7):

- (1) Building under construction.
- (2) Earth scarring and possible construction of additional buildings.

C. All measurements have been made by the CIA/IAD/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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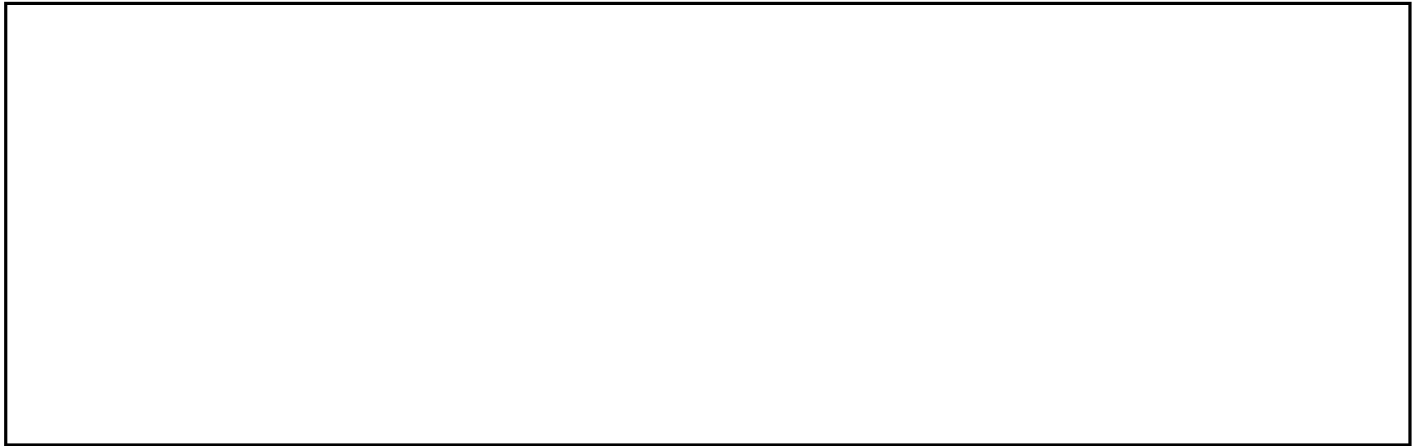
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REFERENCES

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MAPS OR CHARTS

General Locator Map, China - 26906 (UNCLASSIFIED)  
U.S. Target Complex Chart, Series 100, Sheet 0495-9997-100A,  
1st Edition, December 1957 (CONFIDENTIAL)

REQUIREMENT

CIA C-RR5-82,671

CIA/IAD PROJECT

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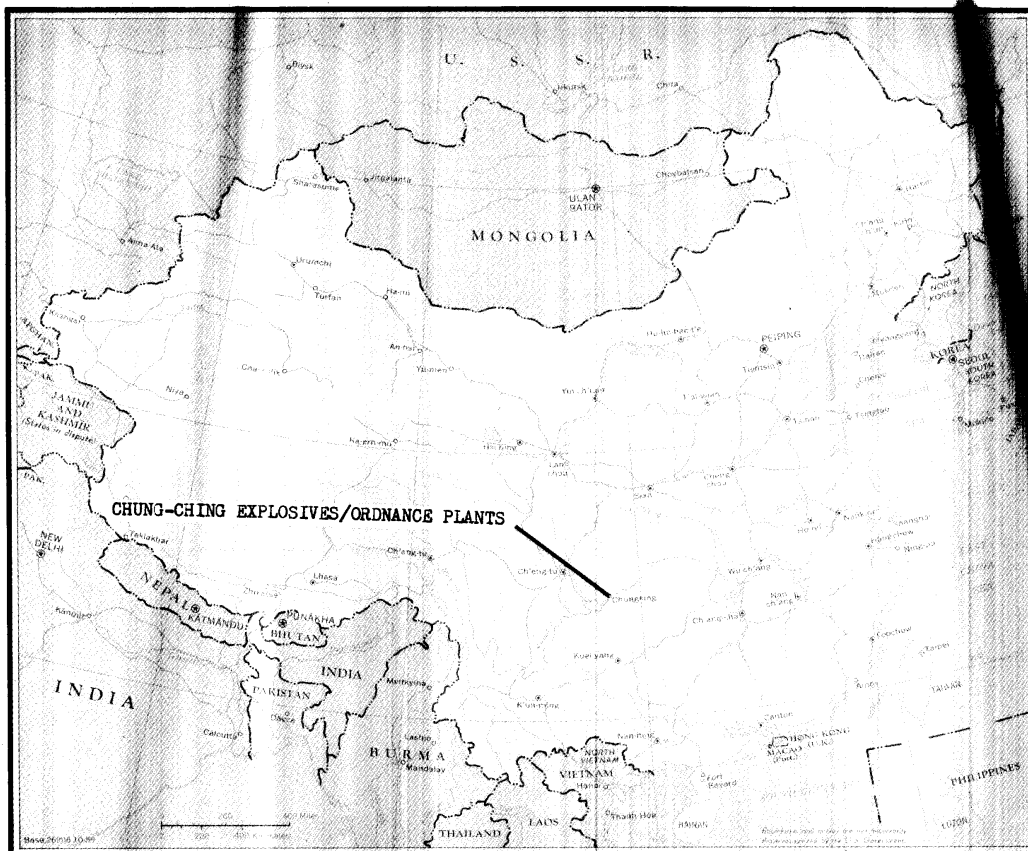
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FIGURE 1

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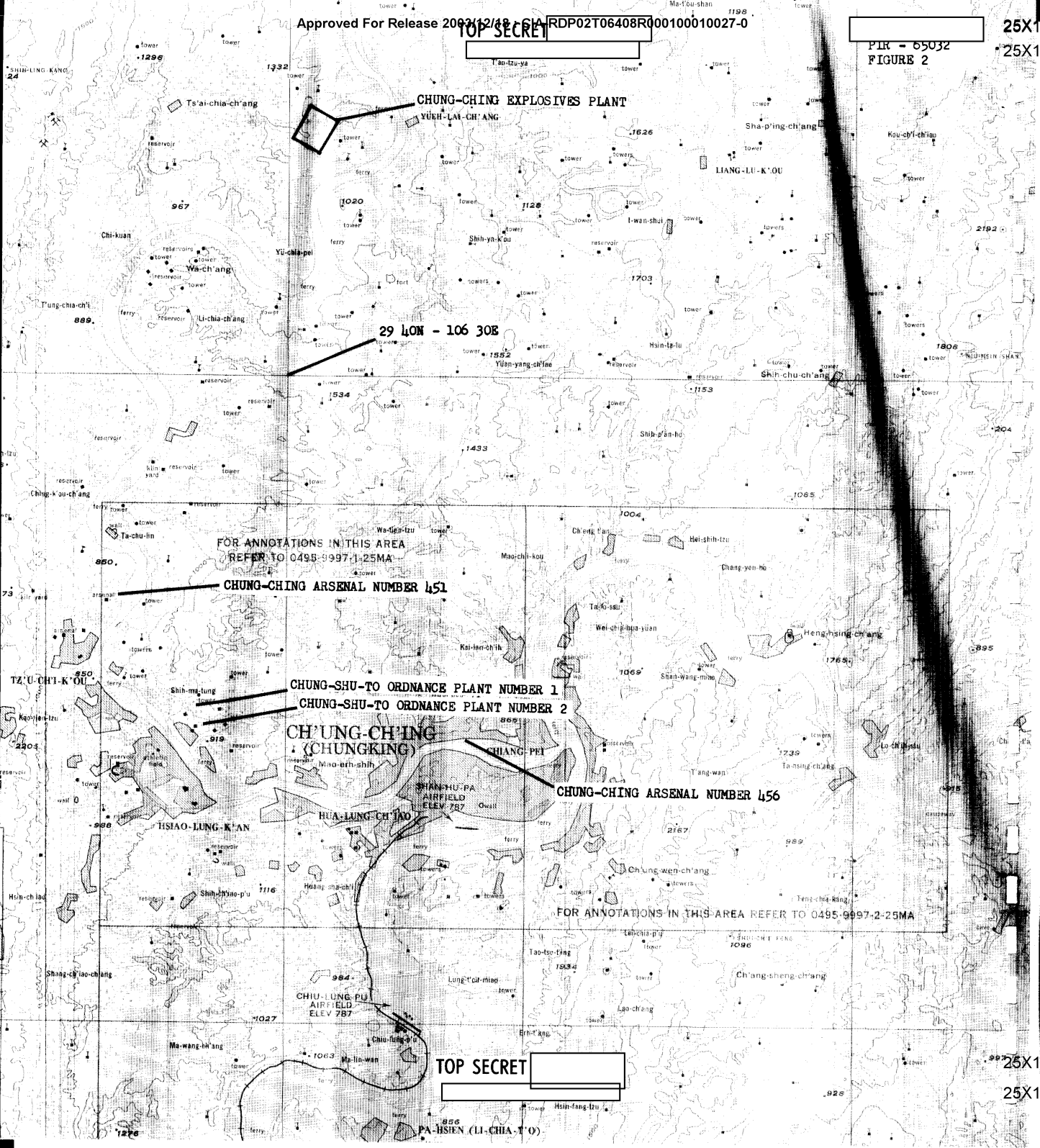
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FIGURE 2

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FIGURE 3

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- a. CHUNG-CHING ARSENAL NUMBER 451
- b. CHUNG-SHU-TO ORDNANCE PLANT NUMBER 1
- c. CHUNG-SHU-TO ORDNANCE PLANT NUMBER 2
- d. CHUNG-CHING ARSENAL NUMBER 456

ORDNANCE PLANTS AND ARSENALS  
Chung-Ching, China  
29 33N - 106 32E

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CHUNG-CHING EXPLOSIVES PLANT  
Chung-Ching, China  
29 43N - 106 30E

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FIGURE 5

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CHUNG-CHING EXPLOSIVES PLANT  
Chung-Ching, China  
29 43N - 106 30E

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FIGURE 6

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CHUNG-SHU-TO ORDNANCE PLANTS  
NUMBERS 1 AND 2  
Chung-Ching, China  
29 35N - 106 28E

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FIGURE 7

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CHUNG-SHU-TO ORDNANCE PLANTS  
NUMBERS 1 AND 2  
Chung-Ching, China  
29 35N - 106 28E

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